



May 4, 2016

AQUION INCORPORATED  
RAINSOFT  
BIBHA DAHAL  
101 S. GARY AVENUE  
ROSELLE IL 60172

Re: Description: WATER TREATMENT DEVICE - OXIDIZING  
Manufacturer: AQUION INCORPORATED  
Product Name: (trans id 2701632) SULFRON WATER CONDITIONING FILTERS  
Model Number(s): TC-FLT 16K, TC-FLT 16TWIN K, TC-FLT 25K AND TC-FLT 33K  
Product File No: 20160142

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of May 2021.

This approval supersedes the approval issued on February 24, 2011 under product file number 20100495.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These devices shall not be installed on water supplies with a pH of 6.5 or less.

These devices contain a metallic media comprised primarily of copper and zinc. This media will release copper and zinc into the treated water as byproducts of performing the intended function of contaminant reduction. How much copper and zinc is released into the treated water is primarily a function of water chemistry, particularly the pH. However, it's also important to note that, based on the test data submitted for these devices, the copper and zinc concentrations in the treated water are well below any primary or secondary maximum contaminant levels respectively. Thus, the concentration of copper and zinc in the water treated by this device should not cause any adverse health effects in otherwise healthy individuals.

In the context of these devices, the phrase "chemical free" pertains to the idea that a chemical regenerant (e.g. salt brine, potassium permanganate, etc.) is not required to maintain the capacity of these devices.

Based on testing data submitted to and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

**AESTHETIC CONTAMINANT REDUCTION CAPABILITIES**  
**PRODUCT FILE NUMBER 20160142**  
**TABLE 1 OF 1**

**Flow Rates:** TC-FLT 16K = 3.0 gallons per minute (gpm) @ 4 pounds per square inch – gauge (psig)]  
TC-FLT 25K = 4.0 gpm @ 6 psig  
TC-FLT 33K = 5.0 gpm @ 7 psig  
TC-FLT 16 TWIN K = 6.0 gpm @ 4 psig

**Capacities:** TC-FLT 16K = 50,000 gallons (gals.)  
TC-FLT 25K = 75,000 gals.  
TC-FLT 33K = 100,000 gals.  
TC-FLT 16 TWIN K = 100,000 gals.

Tested Contaminant	Average Influent Challenge (mg/l) <sup>1</sup>
Hydrogen sulfide (H <sub>2</sub> S)	≤ 1.1
Dissolved Iron (Fe <sup>+2</sup> )	≤ 2.9

**Other Conditions:** the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted by KDF Fluid Treatment, Inc. To qualify for hydrogen sulfide reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.05 mg/l. To qualify for dissolved iron reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.3 mg/l. These devices are not approved for the reduction of bacterial, organically bound or particulate forms of iron. A minimum dissolved oxygen concentration of 0.25 mg/l is required in the raw, untreated, water for each mg/l of dissolved iron and/or hydrogen sulfide.

<sup>1</sup> = milligrams per liter (mg/l) are equivalent to parts per million (ppm)

≤ = less than or equal to

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter  
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Division of Industry Services  
Bureau of Technical Services  
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